

Docket No. RA5334

PATENT

Claim 1: (Cancelled)**Claim 2: (Currently Amended)**

2. The method of Claim 4 3 wherein transmitting step "a." occurs within a single computer system.

Claim 3: (Currently Amended)

3. ~~The method of claim 1~~ A method for use with for use with a computer system having an Internet visible web server accessible to a web browser for sending response messages fulfilling calls from said web browser by sending back to said web browser an item requested in said calls, the method comprising:

- a. transmitting a received call from said Internet visible web server to an Gateway CGI (Gateway CGI).
- b. transferring, via said Gateway CGI, Internet visible Web server the call to an Gateway CGI program.
- c. extracting and packaging said call by said Gateway CGI program into an Encoded Request Package (ERP) with sufficient information to reconstruct the call.
- d. establishing, via said Gateway CGI, a socket to communicate with an instance of a second server (hereinafter an ACM) in a secure part of said computer system.
- e. transmitting information embodied in the original request in said ERP to said ACM.
- f. reconstructing said call by said ACM.
- g. attempting to verify access privileges for said call.
- h. if access privileges are verified, retrieving, by said ACM, said item requested by said call.
- i. forwarding said item to said Internet visible web server.
- j. sending said item to said Gateway CGI across said socket.

Docket No. RA5334

PATENT

k. serving said item in a message to said web browser from said Internet visible web server;

wherein said establishing step "d." occurs by first signaling from said Gateway CGI to a Daemon in said secure part of said computer system across an establishment socket to which said Daemon is attuned, establishing an instance of said ACM by said Daemon and attaching said ACM to a communications socket through which all further communication between said ACM and Gateway CGI shall occur, and port information is sent to said Gateway CGI from said Daemon to indicate on which port said ACM will communicate with said Gateway CGI.

Claim 4: (Original)

4. The method of claim 3 wherein said signaling and said all further communications is encrypted.

Claim 5: (Original)

5. The method of claim 3 wherein said signaling does not contain an ERP.

Claim 6: (Original)

6. The method of claim 3 wherein said signaling does contain an ERP and wherein said establishing of an instance of said ACM by said Daemon includes transfer of said ERP to said ACM.

Claim 7: (Currently Amended)

7. The method of Claim 4 3 wherein in step "g." wherein the ACM does the verification and if the ACM fails to verify the call, the ACM terminates.

Claim 8: (Currently Amended)

8. The method of Claim 4 3 wherein in step "g." wherein the ACM does the verification and if the ACM fails to verify the call, the ACM returns a request for a log-on.

Docket No. RA5334

PATENT

Claim 9: (Original)

9. The method of claim 8 wherein the ACM embeds user request information in the logon request.

Claim 10: (Currently Amended)

10. The method of Claim 4 3 wherein in step "g." wherein the ACM does the verification and if the ACM fails to verify the call, the ACM communicates this failure to said Gateway CGI and awaits further verification information.

Claim 11: (Currently Amended)

11. The method of Claim 4 3 wherein said step "h." includes activating a CGI on said secure system.

Claim 12: (Cancelled)**Claim 13: (Currently Amended)**

13. The method of claim 4 24 wherein said receiving step comprises, receiving a call at a dispatcher, selecting a one of a set of IVWservers by said dispatcher, and sending said call to said selected one by said dispatcher.

Claim 14: (Currently Amended)

14. The method of Claim 4 24 wherein said establishing occurs by first signaling from said Gateway CGI to a Daemon in said secure computer system across an establishment socket to which said Daemon is attuned, establishing an instance of said ACM program by said Daemon and attaching said ACM to a communications socket through which all further communication between said ACM and Gateway CGI shall occur.

Claim 15: (Original)

15. The method of claim 14 wherein said Daemon signals said Gateway CGI information regarding the communications socket.

Docket No. RA5334

PATENT

Claim 16: (Currently Amended)

16. The method of Claim ~~12~~ 24 wherein said executing includes activating a CGI on said secure computer system.

Claim 17: (Original)

17. The method of claim 16 wherein said activated CGI is a session controller for a database and wherein said session controller maintains an open session for a user to use data in a working database.

Claim 18: (Original)

18. The method of claim 17 wherein said working database is not located on said secure computer system but on an intranet and said session controller maintains an open session through an intranet firewall.

Claim 19: (Currently Amended)

19. The method of Claim ~~12~~ 24 wherein said authenticating requires matching of information transferred by the web browser to expected information.

Claim 20: (Original)

20. The method of Claim 19 wherein a session controller further authenticates the call.

Claim 21: (Original)

21. The method of claim 19 wherein said secure computer system maintains a user database for containing at least some of said expected information.

Claim 22: (Currently Amended)

22. The method of Claim ~~12~~ 24 wherein said executing includes retrieving files, including those file types in the set {HTML, image, data} from said secure computer system.

Docket No. RA5334

PATENT

Claim 23: (Currently Amended)

23. The method of Claim 42 24 comprising a step prior to said establishing an IVWserver to receive calls from web browsers on the internet wherein said prior step comprises:

receiving at a dispatcher all calls from web browsers, and
routing each received call to an available IVWserver in a pool of IVWservers.

Claim 24: (Currently Amended)

24. ~~The method of Claim 12~~ A method for operating a web server comprising:
establishing an internet visible web server (hereinafter IVWserver) to receive
calls from web browsers on the internet,
receiving said calls,
relaying said calls to an Gateway CGI on a same computer system with said
IVWserver,
packaging information from said calls into an Encoded Request Packet (ERP)
sufficient to reconstruct said calls from said ERP,
establishing a communication channel between said Gateway CGI and an
Access Control Management (ACM) program on said secure computer system,
authenticating the call,
sending the ERP to said ACM program,
reconstructing the call by said ACM program,
executing the call by the ACM program,
sending a result from said call execution to said Gateway CGI,
providing said result to said IVWserver,

sending said result to said web browser;

wherein said step of establishing a communication channel between said Gateway CGI and an ACM program on said secure computer system comprises:

contacting a Daemon on said secure computer system by said Gateway CGI,
sending a request for an ACM to said Daemon by said Gateway CGI
spawning an ACM by said Daemon,
sending port information to said Gateway CGI from said Daemon to
indicate on which port said ACM will communicate with said Gateway CGI.

Docket No. RA5334

PATENT

Claim 25: (Cancelled)

Claim 26: (Cancelled)

Claim 27: (Cancelled)

Claim 28: (Cancelled)

Claim 29: (Cancelled)

Claim 30: (Cancelled)

Claim 31: (Cancelled)

Claim 32: (Cancelled)

Claim 33: (Cancelled)

Claim 34: (Cancelled)

Claim 35: (Cancelled)

Claim 36: Cancelled

Claim 37: (Cancelled)

Docket No. RA5334

PATENT

Claim 38: (Withdrawn)

38. An Access Control Manager (ACM) program for retrieving secure information from within a secure zone and sending said secure information to an internet visible zone, said ACM program comprising:

means for receiving a data package containing call information in a packaged form comprising call identification information signals and URL identifying signals,

means for unpacking said data package and reconstituting a call from said call information,

Web server means to act on said call and produce a reply.

Claim 39: (Withdrawn)

39. A secure zone computer system comprising:

at least two ports for forming socket connections to a first web server program on an internet visible zone,

a monitoring Daemon for monitoring a first of said two ports for gateway CGI communications and for spawning an Access Control Manager and assigning said Access Control Manager to a second of said two ports for enabling socket communications between said Access Control Manager and said gateway CGI.